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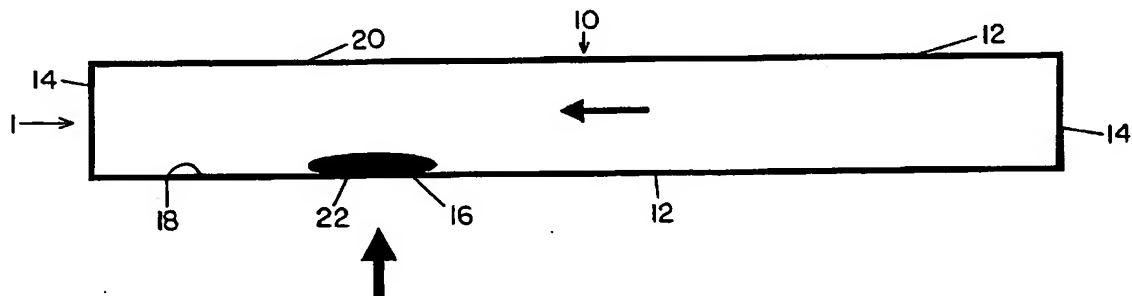
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: HIGH THROUGHPUT ASSAY SYSTEM



(57) Abstract: A device and a method that permits rapid application of experimental solutions to both (i.e. intracellular and extracellular) surfaces of a membrane patch is described. In one embodiment, this is accomplished by mounting a membrane patch on a hole through the side of a hollow tube such that one surface can be readily perfused on the outside of the tube while simultaneously perfusing the inside of the tube. Thus, by measuring changes in membrane traffic using any of a variety of means known in the art, it is possible to determine the effect of test compounds presented to the intracellular and/or extracellular surface on membrane traffic. As can be seen, the instant device and method have the advantage of allowing both sides of the membrane to be accessed simultaneously, as described below. This is in contrast to existing patch clamp techniques where only a single membrane surface is readily accessible

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## INTERNATIONAL SEARCH REPORT

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## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G01N33/487 C12M1/34

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/29402 A (SOPHION BIOSCIENCE AS) 11 April 2002 (2002-04-11) abstract page 31, line 34 - page 32, line 13; figure 8	1-5
A	US 2002/064841 A1 (REED MARK A ET AL) 30 May 2002 (2002-05-30) paragraphs '0007!, '0066!, '0069!, '0070!; figures ----- -/--	1-5

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	MOSBACHER J ET AL: "STUDYING MEMBRANES WITH SCANNING FORCE MICROSCOPY AND PATCH-CLAMP TECHNIQUE" JOURNAL OF VACUUM SCIENCE AND TECHNOLOGY: PART B, AMERICAN INSTITUTE OF PHYSICS. NEW YORK, US, vol. 14, no. 2, 1 March 1996 (1996-03-01), pages 1449-1452, XP000621741 ISSN: 0734-211X the whole document	1
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Information on patent family members

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